CLAIMS

1. A coded-data control device, comprising a data
processing potion for inputting/outputting control data
into/from a recording medium, a coded-data control
portion for constructing, updating and recording
control-data and a recording medium controller for
outputting recording-medium control-data to control the
reading/writing of control data from/into the recording
medium and for outputting control-signals to cause the
data processing portion to read/write control data
from/into the recording medium, characterized in that
wherein the coded-data control portion has a memory
controller comprising a multiplexed-record control
portion and a video-record control portion and/or an
audio-record control portion and said controller allows
the reading of only necessary data by random accessing.

2. A coded data control device as defined in claim 1,
characterized in that a coded-data control portion is
provided to control the accumulation of multiplexed
coded-data in a recording medium, said multiplexed
coded data comprising coded video-data obtained by high
efficiently encoding video-data, coded audio-data
obtained by high efficiently encoding audio-data and
additional data for multiplexing the coded video-data
with the coded audio-data, and said coded data control

-54-

portion uses, as a control key frame, a video frame coded by intraframe coding or prediction from a preceding frame and gives control data which comprises information on location of records of one or two or all of the coded video-data, coded audio-data and multiplexed coded-data, respectively, corresponding to a key frame and an information on linking with preceding and succeeding coded-data, and the control data is stored in a specified area of the recording medium separately from the coded data.

3. A coded data control device as defined in claim 2, characterized in that the information on location of a record of coded video-data in the recording medium indicates a head position or a tail position or both head and tail positions of the coded video-data of the key frame, the information on location of a record of coded audio-data in the recording medium indicates a head position or a tail position or both head and tail positions of the coded audio-data corresponding to the key frame, the information on location of a record of multiplexed coded-data in the recording medium indicates a head position of the multiplexed data which is first recorded one of either the coded video-data of the key frame or the coded audio-data corresponding to the key frame.

4. A coded data control device as defined in claim 3,

characterized in that the information on location of a record of multiplexed data in the recording medium is used at synchronous reproduction of a video output and an audio output and the information on location of a record of coded video-data is used at reproduction of a video output only.

5. A coded data control device as defined in any one of claims 3 and 4, characterized in that a coded-data control portion has a first memory for storing a first table, a second memory for storing a second table, a third memory for storing a third table and a memory controller for control of control data stored in the first, second and third memories; the control data in the first table is used for control of a video sequence in the first table, the control data in the second table is used for control of a memory area of the video sequence in the recording medium, the control data in the third table is used for control of the location of records of the coded video-data or coded audio-data or multiplexed coded-data in the recording medium corresponding to that in the key frame; and an linking information for the control data is composed of a pointer indicating a linking order of data in each table and a pointer indicating the second table data corresponding to the first table data and a pointer indicating the third table data corresponding to the

second table data.

6. A coded data control device as defined in any one
of claims 3 and 4, characterized in that a coded-data
control portion has a first memory for storing a first
table, a second memory for storing a second table, a
fourth memory for storing a fourth table, a fifth
memory for storing a fifth table and a memory
controller for control of control data stored in the
first, second, fourth and fifth memories; the control
data in the first table is used for control of a video-
sequence, the control data in the second table is used
for control of a memory area of the video-sequence in
the recording medium, the control data in the fourth
table is used for control of location of records of the
coded video-data or coded audio-data or multiplexed
coded-data in the recording medium corresponding to the
intraframe-coded key frame and the control data in the
fifth table is used for control of location of records
of the coded video-data or coded audio-data or
multiplexed coded-data in the recording medium
corresponding to the key frame coded by prediction from
a preceding frame; and an information for linking the
control data is composed of a pointer indicating an
order of linking the data in each table, a pointer
indicating the second table data corresponding to the
first table data, a pointer indicating the fourth table

-57-

data corresponding to the second table data and a
pointer indicating the fifth table data corresponding
to the fourth table data.

7. A coded data control device as defined in any one
of claims 5 and 6, characterized in that each of words
in the first table through the fifth table is provided
a flag indicating whether it is used or unused.

8. A coded data control device as defined in any one
of claims 1 to 7, characterized in that in case of no
control data being contained in the recording medium,
the multiplexed coded data is read from the recording
medium and control data are constructed from the
multiplexed data.

ADD
A1